

10/529,497

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FILE 'HOME' ENTERED AT 17:53:43 ON 24 FEB 2006

=> set abbr on perm
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=> file uspatall caplus japio

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
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FILE 'USPATFULL' ENTERED AT 17:54:28 ON 24 FEB 2006
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COPYRIGHT (C) 2006 Japanese Patent Office (JPO)- JAPIO

=> s (metathesis or metathetical or ring(1w)open?)(3a)(copolymer or terpolymer)
L1 1702 (METATHESIS OR METATHETICAL OR RING(1W) OPEN?)(3A)(COPOLYMER OR
TERPOLYMER)

=> s cycloolefin or cyclic olefin or norbornene(s)endo
L2 17212 CYCLOOLEFIN OR CYCLIC OLEFIN OR NORBORNENE(S) ENDO

=> s l1 and l2
L3 392 L1 AND L2

=> s l3 and exo(2w)(form or stereoisomer? or isomer?)
L4 29 L3 AND EXO(2W)(FORM OR STEREOISOMER? OR ISOMER?)

5-stearoxymethyl-bicyclo [2,2,1]-heptene-2. The nitrile group, ester group and substituent having nitrile or ester group may take the **endo** or **exo** position. Though the cyano- and ester-substituted **norbornene** derivatives consist of two groups of isomers represented by the **endo** and **exo** positions occupied by the groups or substituents, yet said different groups of isomers can be effectively separated from each other by precision distillation. The **endo** type **isomer**, for example, 5-cyano-bicyclo [2,2,1]-heptene-2 remains solid at room temperature and has a boiling point of 88° C in an atmosphere reduced to 12 mm Hg. The **exo** type is a colorless liquid at room temperature, and has a boiling point of 80.5° C in an atmosphere reduced to 12 mm Hg, a density of 1.0065 g/cc at 20° C and a refractive index of 1.4862 with respect to the D line of sodium at 20° C. Said isomers can be used in a separated or nonseparated state in performing the ring-opening polymerization. It is possible to use a single or two or more types of the above-mentioned cyano- and ester-substituted **norbornene** derivatives.

SUMM The polymers prepared by ring-opening polymerization of cyano- or ester-substituted norbornene derivatives include not only homopolymers of cyano- or ester-substituted norbornene derivatives obtained by the above-mentioned process but also **copolymers** prepared by the **ring-opening** polymerization of a mixture of the cyano- or ester-substituted norbornene derivatives as a main component and other cycloolefinic compounds which is carried out in the same manner as in producing the homopolymers of said cyano- or ester-substituted norbornene derivatives.

SUMM Where the above-mentioned copolymers of cyano- or ester-substituted norbornene derivatives are used in producing the resin compositions of this invention, it is preferred that said **copolymers** be formed by **ring-opening** polymerization of a mixture containing one mol at most of other cycloolefinic compounds based on one mol of cyano- or ester-substituted norbornene derivatives. Where said other cycloolefinic compounds, for example monocyclic olefins such as cyclopentene and cyclooctene are used at the rate of more than one mol based on one mol of cyano- or ester-substituted norbornene derivatives, then the resin composition containing the resultant copolymers will have lower surface hardness and softening point.

CLM What is claimed is:
2. High impact resin compositions according to claim 1 wherein said polymers prepared by **ring-opening** polymerization are **copolymers** prepared by **ring-opening** polymerization of the cyano-substituted norbornene derivatives together with other cycloolefinic compounds selected from the group consisting of monocyclic olefins, nonconjugated cyclopolyenes, acid anhydride type norbornene derivatives, halogen type norbornene derivatives, ether type norbornene derivatives, imide type norbornene derivatives, aromatic norbornadiene derivatives, ester type norbornadiene derivatives, bicyclo[2,2,1]-heptene-2 and 1,4; 5,8-dimethano-1,2,3,4,4a5,8,8a-octahydronaphthalene.

=> d his full

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L1 FILE 'USPATFULL, USPAT2, CAPLUS, JAPIO' ENTERED AT 17:54:28 ON 24 FEB 2006
1702 SEA ABB=ON PLU=ON (METATHESIS OR METATHETICAL OR RING(1W)
OPEN?) (3A) (COPOLYMER OR TERPOLYMER)

L2 17212 SEA ABB=ON PLU=ON CYCLOOLEFIN OR CYCLIC OLEFIN OR NORBORNENE (S) ENDO
 L3 392 SEA ABB=ON PLU=ON L1 AND L2
 L4 29 SEA ABB=ON PLU=ON L3 AND EXO(2W) (FORM OR STEREOISOMER? OR ISOMER?)
 D L4 1-29 IBIB ABS
 D L4 28 HIT
 L5 19 SEA ABB=ON PLU=ON L3 AND ENDO(2W) (FORM OR STEREOISOMER? OR ISOMER?)
 D L5 1-19 IBIB ABS
 D L5 7 HIT
 D L5 14 HIT

FILE HOME

FILE USPATFULL

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FILE USPAT2

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FILE CAPLUS

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